

To: Jones, Britt[Britt.Jones@amecfw.com]
Cc: Behmke, Shannon[behmke.shannon@epa.gov]; Deschambault, Lynda[Deschambault.Lynda@epa.gov]; Greg Reller[gr@burlesonconsulting.com]
From: Nagle, Greg
Sent: Fri 4/21/2017 4:21:23 PM
Subject: RE: Leviathan Mine Site: Surface Water Sampling

Perfect. Ideally, EPA would like sample for total and dissolved metals from ST-04 and/or ST-08. Does that work?

We can talk again Wednesday for sure, but we'll take what we can get once the volume and QC requirements for the primary samples are met. I'll bring plenty of bottles, filters and our own tubing just in case. If we limit the use of EPA equipment to the bottles, and use ARCs tubing and filters that would be best. Thanks for the offer.

Shannon Behmke (EPA) and I can be at Pond 4 by noon on Wednesday and can adjust our work schedule the rest of the week as needed. If something comes up between now and then, just let me know. My mobile number is [REDACTED]

Thanks again.

Greg Nagle

Environmental Scientist

USEPA Region 9 Laboratory

510-412-2334

From: Jones, Britt [mailto:Britt.Jones@amecfw.com]
Sent: Thursday, April 20, 2017 3:17 PM
To: Nagle, Greg <Nagle.Greg@epa.gov>
Subject: RE: Leviathan Mine Site: Surface Water Sampling

Hi Greg,

We are planning to set up our automatic sampling equipment on Monday and Tuesday of next week. Then on Wednesday morning, each of our four samplers will be programmed to collect a 24 hour composite snowmelt sample. We can program each sampler to collect double the volume so half the volume will be for our sample and the other half of the volume can be used for your split. The four locations and all the details for analysis are in the attached document (pages 7 and 8).

Let me know if you want split samples from all four locations or just a few of them. Once the samples are retrieved on Thursday, we'll program it collect another 24-hour composite. The goal is 3 composite samples at each of the four locations. We need to collect some QC samples (duplicates and MS/MSD) so there may not be enough volume for you to collect a split from all 3 composites at all 4 locations.

Please bring your own bottles for the split samples. We have extra filters and tubing if you want to just use what we have or you can bring your own.

I'll be at Pond 4 most of the day on Wednesday if you want to meet up with me there. We aren't anticipating on having our first sample until Thursday morning so we can talk more about logistics on Wednesday.

You can also call me on my mobile number 916-612-6237 if you have any questions.

Britt Jones PG

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From: Nagle, Greg [<mailto:Nagle.Greg@epa.gov>]
Sent: Wednesday, April 19, 2017 3:48 PM
To: Jones, Britt <Britt.Jones@amecfw.com>

Subject: RE: Leviathan Mine Site: Surface Water Sampling

Hi Britt,

Lynda Deschambault requested that I coordinate with you. I believe we have spoken before. I am planning a visit to Leviathan Mine March 26-28. My primary reason for the visit is to maintain the WQ monitoring equipment (sondes) downstream of the mine. I understand that there may be an opportunity for EPA to obtain a split sample from an automated sampler if the all the timing/logistics work out. I can bring whatever is necessary to collect/process/filter/preserve samples. I am in and out of the lab/office over the next few days. Feel free to contact me on my mobile number at [REDACTED] or via e-mail. Thanks.

Greg Nagle

Environmental Scientist

USEPA Region 9 Laboratory

510-412-2334

From: Lombardi, Marc [<mailto:Marc.Lombardi@amecfw.com>]

Sent: Tuesday, April 18, 2017 4:37 PM

To: Deschambault, Lynda <Deschambault.Lynda@epa.gov>; Nagle, Greg <Nagle.Greg@epa.gov>; Greg Reller <gr@burlesonconsulting.com>; Patty Cubanski <pc@burlesonconsulting.com>

Cc: Jefferson, Jill <Jill.Jefferson@amecfw.com>; Jones, Britt <Britt.Jones@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>; Grant Ohland - (gohland@ohlandhydrogeo.com) <gohland@ohlandhydrogeo.com>

Subject: RE: Leviathan Mine Site: Surface Water Sampling

Lynda,

As indicated in my earlier email regarding PE samples, there seems to be some confusion here. Atlantic Richfield is not conducting any surface water or snowmelt

sampling this week (week ending 4/21). The earliest that we would collect snowmelt samples would be the beginning of next week (4/24). Also, snowmelt samples are 24-hour time weighted collection samples and not grab samples, so there is no way for U.S. to collect field duplicates unless it intends to set up its own auto-sampling equipment. If requested, we can program the auto samplers to collect double the volume and provide a split sample to U.S. EPA, but we would need to know in advance. We currently plan on scouting access to the surface water sampling locations next Monday (4/24). Pending access conditions we may begin surface water sample collection as early as next Tuesday, we will just have to wait and assess site access conditions.

The attached letters are those previously submitted to U.S. EPA regarding the proposed 2017 Snowmelt and Surface Water Monitoring programs which contain the list of analytes. Also attached is Table 3A from the RI/FS QAPP showing target detection limits.

Yes - Lynda Lombardi has been coordinating PE samples with Joe Eidelberg, Rich Freitas and Keith Strout. We are unsure at this point which sampling events U.S. EPA is going to be submitting PE samples for; however, the early season sampling events may not be the best for coordination of PE samples due to the uncertain timing of when the event will actually occur due to potential delays caused by inclement weather and uncertain site access conditions.

Please note: as of the writing of this email we have not yet received U.S. EPA approval to implement either of these programs.

Should you have any questions or comments please contact Tony Brown at (657) 529-4537 or anthony.brown@bp.com.

Thanks,

Marc

Marc R. Lombardi, CEM, PG

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From: Deschambault, Lynda [<mailto:Deschambault.Lynda@epa.gov>]

Sent: Tuesday, April 18, 2017 10:26 AM

To: Nagle, Greg <Nagle.Greg@epa.gov>; Greg Reller <gr@burlesonconsulting.com>; Patty Cubanski <pc@burlesonconsulting.com>

Cc: Lombardi, Marc <Marc.Lombardi@amecfw.com>; Jefferson, Jill <Jill.Jefferson@amecfw.com>; Jones, Britt <Britt.Jones@amecfw.com>; Brown, Anthony R (RM) <anthony.brown@bp.com>

Subject: RE: Leviathan Mine Site: Surface Water Sampling

Greg Nagle,

it turns out that ARC plans to be at the site and is also taking snowmelt and surface water samples later this week.

I've copied ARC contractors: Jill/Marc/Britt here, and ask you to coordinate with them.

Some EPA oversight of their work and taking duplicates would be great,

Jill/Marc could you please provide your SAP with the list of analytes and Detection limits.

Greg Nagle and Region 9 lab will want to do those at a minimum.

Please confirm if you are doing both total and dissolved metals and lab method. Thanks!

Lynda

Also, has Linda Lombardi coordinated on receipt of PE samples? Will those be part of this sampling event?

Greg Nagle....Greg Reller also has some suggestions for grab sample locations that we'd like you to sample, please coordinate directly with Greg Reller at 916-984-4651 x 111

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